

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

2

Claim 1 through 23 (not entered).

Claim 24. (original) A self-contained air-conditioned enclosure assembly providing a comfortable personal environment for occupants comprising:

- a. an enclosure assembly means having an interior, suitable to be fitted on a slab, whereby thermally confining the interior space above said slab, and said slab having an underside,
- b. a frame means for structurally supporting said enclosure, comprising plurality of frame members and plurality of corner connector means for interconnecting said frame members,
- c. a roof disposed in spaced relation above said slab having a plurality of support straps for suspending said roof from said frame means,
- d. a plurality of upright sidewall means attached to said roof comprising a plurality of wall sheets and a plurality of spacer strips, said sidewall means having an upper portion and a lower portion,
- e. a plurality of first means for securing the upper portion of said sidewall means to said roof,
- f. an exit air opening in said sidewall means,
- g. a supply air opening in said sidewall means located vertically at a substantial distance below said exit air opening,
- h. an air-conditioner means for conditioning the interior space of said enclosure, comprising:
 - i) a main housing having four vertical sides, a cornice, a floor and an interior space,
 - ii) an air plenum located in said main housing bounded on top by the cornice of said main housing and having a mid portion and a bottom end,
 - iii) an exit air duct means extending from the cornice of said main housing, communicating with said air plenum, having an extremity that is connected to said exit air opening for conveying air exiting the enclosure to said air-conditioner means,
 - iv) a first air moving devise such as a fan motor assembly located within said air plenum for inducing air movement from said enclosure to said air-conditioner,

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

3

- v) a heat transfer means comprising an evaporator coil and a heater element assembly, fixed below said air moving device at the bottom end of said air plenum, whereby air moved by said first air moving device through said heat transfer means is thermally conditioned,
- vi) a supply air duct means extending horizontally from one side of said main housing located below said heat transfer means having four walls, an extremity that is connected to said supply air opening, and the bottom wall of said supply air duct means extends inside said main housing thereby horizontally partitioning said main housing whereby conditioned air from said heat transfer means is conveyed to the enclosure,
- vii) a second air moving device such as a fan blower assembly fixed below the bottom wall of said supply air duct,
- viii) an exhaust air duct connected to said second air moving device and extends through one of the sides of said main housing on the opposite side of said supply air duct means,
- ix) a condensing coil bank fixed below said second air moving device whereby heat is rejected from said condensing coil bank to the air moved by said second air moving device,
- x) a compressor chamber located below said condensing coil bank having a compressor fixed on the floor of said main housing, isolated from said air plenum by the bottom wall of said supply air duct means,
- xi) a control panel attached vertically at the extremity of and within said supply air duct.

Claim 25 through 61 (not entered)

Claim 62 through 64 (canceled)

Claim 65 through 76 (not entered)

Claim 77. (currently amended) A self-contained air-conditioned enclosure assembly providing a climate controlled environment therein the enclosure assembly comprising:

- i) a collapsible self-supporting enclosure, wherein said enclosure includes a roof, four sidewalls extending downwardly from said roof, said sidewalls having an upper portion

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

4

- and a lower portion, an enclosed space, at least one first opening, and the enclosed space is cuboid shaped and is of sufficient size capable of receiving at least one occupant, ~~and~~
- ii) a plurality of sidewalls descending from said roof, said sidewalls having two wall sheets and a plurality of spacer strips positioned there between so that spaces are formed between said wall sheets and said spacer strips, and
- iii) a climate control device connectable to said enclosure, having a climate controlling outlet directly connectable to said opening of the enclosure to supply climate controlled air to the enclosed space,

whereby said enclosure is capable of accepting a slab, said slab having an underside, and defines an enclosed space when erected, said enclosed space is bounded by said roof, said slab, and said lower portion of said side walls surround said slab, said slab located within said enclosed space, said sidewalls incorporates said opening and said climate controlling outlet of said climate control device is directly connected to said first opening to supply climate controlled air to said occupant of said enclosed space.

Claim 78. (original) The enclosure assembly of claim 77, wherein the enclosure is capable of accepting a slab, said slab having an underside, said slab is of sufficient size capable of receiving at least one occupant and said enclosure further includes:

- i) a roof and,
- ii) four sidewalls extending downwardly from said roof, said sidewalls having an upper portion and a lower portion,

whereby the enclosed space is bounded by said roof, said slab when accepted, said lower portion of said side walls surround said slab, said slab located within said enclosed space, and said sidewalls; and said sidewalls incorporates said opening, said opening being capable of receiving the climate controlling outlet of said climate control device.

Claim 79. (original) The enclosure assembly of claim 77, wherein the self-supporting enclosure includes a plurality of frame members forming a support structure that supports said roof and said sidewalls, said support structure comprising plurality of frame members.

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

5

Claim 80. (original) The enclosure assembly of claim 77, wherein the sidewalls are comprised of two transparent plastic sheets having a plurality of spacer strips positioned therebetween so that spaces are formed between said wall sheets and said spacer strips, and wherein the lower portion of said sidewalls are capable of wrapping around to the underside of the accepted slab.

Claim 81. (original) The enclosure assembly of claim 77, wherein the enclosure further includes a second opening to exit air from said enclosed space, positioned at a substantial distance from said first opening, and said sidewalls incorporates said second opening, whereby said climate control device is directly connected to said first opening to supply climate controlled air to said enclosed space and said second opening exit air from said enclosed space.

Claim 82. (original) The enclosure assembly of claim 77, wherein said climate control device includes:

- i) a main housing having four vertical sides, a floor and an interior space,
- ii) an air plenum located in said main housing,
- iii) a fresh air chamber having a first open end in communication with said air plenum and a second open end in communication with the surrounding environment and is capable of receiving fresh air from the surrounding environment, whereby said fresh air chamber is otherwise isolated from said interior space of said main housing and is capable of supplying fresh air to said air plenum,
- iv) a first air moving device located within said air plenum for inducing air movement between said enclosure and said climate control device,
- v) a first heat transfer means fixed adjacent to said air moving device, whereby air moved by said first air moving device through said first heat transfer means is thermally conditioned,

whereby said climate controlling outlet of said climate control device is located adjacent to said first heat transfer means, said climate controlling outlet having an extremity that is connectable to said opening of the enclosure, and a duct structure that directs the thermally conditioned air to said enclosure.

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

6

Claim 83. (original) The enclosure assembly of claim 82, wherein said climate control device further includes:

- i) a filtering device located in said interior space and adjacent to said first air moving device, said filtering device purifies the air moved by said first air moving device, and
- ii) a control panel connected to at least the first air moving device to control conditioned air delivery to said enclosure.

Claim 84. (original) The enclosure assembly of claim 82, wherein said climate control device further includes an exit air duct extending from said main housing, communicating with said air plenum, having an extremity that is connectable to said second opening of the enclosure, and capable of conveying air from said enclosure to said air plenum.

Claim 85. (original) The enclosure assembly of claim 82, wherein said climate control device further includes:

- i) a compressor chamber located adjacent to said floor of said main housing, having a compressor fixed on said floor, and isolated from said air plenum by the duct structure of said climate control outlet, and
- ii) a second air moving device fixed adjacent to said compressor chamber.

Claim 86. (original) The enclosure assembly of claim 85, wherein said climate control device further includes an exhaust air duct connected to said second air moving device and extends through one of the sides of said main housing preferably on the opposite side of said climate controlling outlet, wherein said exhaust air duct is preferably flexible, collapsible, and light weight round air duct, whereby air moved by said second air moving device is exhausted.

Claim 87. (original) The enclosure assembly of claim 82, wherein said climate control device further includes a heat transfer duct, adjacent to said fresh air chamber, having one end communicating with said air plenum and an opposed end connected to said compressor chamber whereby air from said air plenum is exhausted to said compressor chamber.

Application No. 10/038,255

(Jebaraj)

Art Unit 3744

7

Claim 88. (original) The enclosure assembly of claim 87, wherein said climate control device further includes an air damper pivotally mounted adjacent to said heat transfer duct, mechanically linked to said control panel, and capable of adjusting air flow from said air plenum to said compressor chamber.

Claim 89. (new) A method of controlling at least a temperature within a enclosed space capable of receiving at least one occupant, the method comprising the steps of:

- i) Erecting a temporary structure, wherein when erected the structure defines the enclosed space, the structure having:
 - i. a roof,
 - ii. a plurality of sidewalls descending from said roof, said sidewalls having two wall sheets and a plurality of spacer strips positioned there between so that spaces are formed between said wall sheets and said spacer strips, and
 - iii. an inlet opening, and said sidewall incorporating said inlet opening;
- ii) coupling an air-conditioning device to the inlet opening, and
- iii) operating said air-conditioning device, wherein said air-conditioning device delivers conditioned supply air stream to said enclosed space.

Claim 90. (new) The method of claim 89, further comprising a method of improving operational efficiency, the method comprises the step of recovering thermal energy at least in part from an exhaust air stream to the supply air stream of said temporary structure.

Claim 91. (new) The method of claim 90, wherein the step of recovering thermal energy at least in part from an exhaust air stream includes at least in part transferring heat to said air-conditioning device having a condenser coil.